

Serial Number: 04/618,596 A

ENTERED RECEIVED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: TECH CENTER 1CXX/2900
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☒ Inserted mandatory headings, specifically: <110> Applicant, <120> Title of Invention
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

**RECEIVED**

1642

**OCT 31 2000****TECH CENTER 1600/2000**

RAW SEQUENCE LISTING      DATE: 10/27/2000  
 PATENT APPLICATION: US/09/618,596A      TIME: 16:38:14

Input Set : A:\Cpg.pto  
 Output Set: N:\CRF3\10272000\I618596A.raw

3 <110> APPLICANT: Macina and Sun  
 5 <120> TITLE OF INVENTION: A Novel Method of Diagnosing, Monitoring, Staging,  
 6      Imaging and Treating Colon Cancer  
 8 <130> FILE REFERENCE:  
 10 <140> CURRENT APPLICATION NUMBER: US/09/618,596A  
 11 <141> CURRENT FILING DATE: 2000-07-17  
 13 <150> PRIOR APPLICATION NUMBER: PCT/US99/10498  
 14 <151> PRIOR FILING DATE: 1999-05-12  
 18 <160> NUMBER OF SEQ ID NOS: 1  
 22 <170> SOFTWARE: PatentIn Ver. 2.0  
 26 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 2608  
 30 <212> TYPE: DNA  
 32 <213> ORGANISM: Homo sapiens  
 36 <220> FEATURE:  
 38 <221> NAME/KEY: unsure /  
 40 <222> LOCATION: (2025)  
 44 <220> FEATURE:  
 46 <221> NAME/KEY: unsure /  
 48 <222> LOCATION: (2036)  
 52 <220> FEATURE:  
 54 <221> NAME/KEY: unsure /  
 56 <222> LOCATION: (2163)  
 60 <220> FEATURE:  
 62 <221> NAME/KEY: unsure /  
 64 <222> LOCATION: (2263)  
 68 <400> SEQUENCE: 1  
 70 gctgatagca cagttctgtc cagagaagga aggcggaata aacttattca ttcccaggaa 60  
 72 ctcttggggg aggtgtgtgt ttttcacatc ttaaaggctc acagaccctg cgctggacaa 120  
 74 atgttccatt cctgaaggac ctctccagaa tccggattgc tgaatcttcc ctgttgcccta 180  
 76 gaagggtccc aaaccacctc ttgacaatgg gaaactgggt ggtaaccac tggttttcag 240  
 78 ttttgtttct ggttggttgg ttagggtcga atgttttctt gtttggtgat gccttcctga 300  
 80 aatatgagaa ggccgacaaa tactactaca caagaaaaat ccttggttca acattggcct 360  
 82 gtgcccagac gtctgtcttc tgcctgaatt ttaacagcac gctgacctg ctctctgtgt 420  
 84 gtgcgaatct gctgtccttc ctgaggggca cctgctcatt ttgcagccgc acactgagaa 480  
 86 agcaattgga tcacaacctc accttcacac agctgggtggc ctatatgatc tgcctacata 540  
 88 cagctattca catcattgca cactgttta actttgactg ctatagcaga agccgacagg 600  
 90 ccacagatgg ctcccttgcc tccattctct ccagcctatc tcatgatgag aaaaaggggg 660  
 92 gttcttggct aaatcccatc cagtcgccga acacgacagt ggagtatgtg acattcacca 720  
 94 gcgttgctgg tctcactgga gtgatcatga caatagcctt gatttctcat gtaacttcag 780  
 96 ctactgagtt catccggagg agttattttg aagtcttctg gtatactcac caccctttta 840  
 98 tcttctatat ccttggttta gggattcacg gcattggtgg aattgtccgg ggtcaaacag 900  
 100 aggagagcat gaatgagagt catcctcgca agtgtgcaga gtcttttgag atgtgggatg 960  
 102 atcgtgactc ccactgtagg cgccctaagt ttgaagggca tcccctgag tcttggaagt 1020  
 104 ggatccttgc accggtcatt ctttatatct gtgaaaggat cctccgggtt taccgctccc 1080  
 106 agcagaaggt tgtgattacc aagggtgtta tgcacccatc caaagttttg gaattgcaga 1140  
 108 tgaacaagcg tggcttcagc atggaagtgg ggcagtatat ctttgttaat tgcctcctca 1200

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/618,596A  
 DATE: 10/27/2000  
 TIME: 16:38:14

Input Set : A:\Cpg.pto  
 Output Set: N:\CRF3\10272000\I618596A.raw

```

110 tctctctcct ggaatggcat ccttttactt tgacctctgc tccagaggaa gattttcttct 1260
112 ccattcataat cggagcagca ggggactgga cagaaaaatct cataagggct ttcgaaacaac 1320
114 aatattcacc aattcccagg attgaagtgg atgggtccctt tggcacagcc agtgaggatg 1380
116 ttttccagta tgaagtggct gtgctggttg gagcaggaat tggggtcacc ccctttgctt 1440
118 ctatcttgaa atccatctgg tacaaattcc agtgtgcaga ccacaacctc aaaacaaaaa 1500
120 agatctatatt ctactggatc tgcagggaga cagggtgcctt ttcttggttc aacaacctgt 1560
122 tgacttcctt ggaacaggag atggagggaat taggcaaagt gggttttcta aactaccgtc 1620
124 tcttcctcac cggatgggac agcaatatg ttggtcatgc agcattaaac tttgacaagg 1680
126 ccactgacat cgtgacaggt ctgaaacaga aaacctcctt tgggagacca atgtgggaca 1740
128 atgagttttc tacaatagct acctcccacc ccaagtctgt agtgggagtt ttcttatgtg 1800
130 gccctcggac tttggcaaaag agcctgcgca aatgctgtca ccgatattcc agtctggatc 1860
132 ctagaaaggt tcaattctac ttcaacaaag aaaatttttg agttatagga ataaggacgg 1920
134 taatctgcat tttgtctctt tgtatcttca gtaattgagt tataggaata aggacggtaa 1980
W--> 136 tctgcatttt gtctctttgt atcttcagta atttacttgg tctcttcagg tttganccagt 2040
138 cacttttagat aagaatgtgc ctctcaagcc ttgactccct ggtattcttt ttttgattgc 2100
140 attcaacttc gttacttgag ctccagcaac ttaagaactt ctgaagttct taaagttctg 2160
W--> 142 aatttcttaa agcccatgga tcttttctca gaaaaataac tgttaaatctt tctggacagc 2220
W--> 144 catgactgta gcaaggcttg atagcagaag tttggtggtt canaattata caactaatcc 2280
146 caggtgattt tatcaattcc agtgttacca tctcctgagt tttggtttgt aatcttttgt 2340
148 cctcccacc cccacagaag attttaagta gggtgacttt ttaaataaaa atttattgaa 2400
150 taattaatga taaacataa taataaacat aaataataaa caaaattacc gagaacccca 2460
152 tccccatata acaccaacag tgtacatggt tactgtcact tttgatatgg tttatccagt 2520
154 gtgaacagca atttattatt tttgtctatc aaaaaataaa ggattttttt tcacttgaaa 2580
156 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2608

```

VERIFICATION SUMMARY                      DATE: 10/27/2000  
PATENT APPLICATION: US/09/618,596A        TIME: 16:38:15

Input Set : A:\Cpg.pto  
Output Set: N:\CRF3\10272000\I618596A.raw

L:8 M:201 W: Mandatory field data missing, FILE REFERENCE  
L:10 M:270 C: Current Application Number differs, Replaced Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:136 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1  
L:136 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1  
L:142 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1  
M:340 Repeated in SeqNo=1  
L:144 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1